

Author Index **Canadian Journal of Animal Science, Volume 76, 1996**

- Aalhus, J. L., 517
 Acharya, S. N., 321
 Allen, J. G., 89
 Allen, O. B., 113
 Alward, S. R., 127
 Amos, H. E., 367
 Anderson, D. M., 127, 491
 Asano, K., 203
 Ayles, H. L., 607
- Baas, T. C., 245
 Bailey, D. R. C., 55
 Baker, M. J., 367
 Baldwin, P., 193
 Ball, R. O., 435, 451, 607
 Barbut, S., 455
 Bate, L. A., 183, 491
 Batra, T. R., 145
 Beauchemin, K. A., 321, 629
 Bell, J. M., 423
 Berg, B., 459
 Bergen, R. D., 305
 Bergeron, R., 289
 Bernier, J. F., 259
 Berthiaume, R., 113
 Bertram, M. J., 613
 Bildfell, R. J., 121
 Bird, A. R., 343
 Blair, R., 121
 Blanco, G., 35
 Boadi, D., 337, 523
 Boila, R. J., 163
 Brungaard, G., 443
 Bubenik, G. A., 607
 Buchanan-Smith, J. G., 113, 321
 Buckrell, B. C., 465
 Burrows, V. D., 313
 Bush, R. S., 89
 Butler, G., 313
- Cai, Y., 351
 Calvert, C. C., 253
 Campbell, L. D., 163
 Carbajal, B., 153, 473
 Caskey, B., 459
 Castell, A. G., 417
 Cave, N. A., 313
 Cerbito, W. A., 463
 Charmley, E., 571
 Cheng, K.-J., 215, 231
 Christensen, D. A., 305, 547, 579, 625
 Christison, G. I., 141, 171
 Cirio, A., 469
 Classen, H. L., 135
- Claus, R., 531
 Cliplef, R. L., 149
 Coffey, M. T., 613
 Colucci, P. E., 73, 81
 Cook, N. J., 329
 Corbett, R., 459
 Coupland, T., 49
 Crober, D. C., 267
 Croom, W. J., Jr., 343
 Crow, G. H., 7, 15
 Cymbaluk, N. F., 171
- Daniel, L. R., 343
 Davidson, P. M., 63
 Davis, K. C., 189
 de Castro, T., 153, 473
 Dehnhard, M., 531
 Dick, P., 451
 Donald, A. W., 183
 Duncan, I. J. H., 177
 Dyck, G. W., 541
- Eggum, B. O., 443
 Eisen, E. J., 613
 Eurell, T. E., 289
 Ewan, R. C., 351
- Facon, M., 121
 Fadel, J. G., 253, 587
 Fan, L. Q., 73, 81
 Fan, M. Z., 563
 Fan, Y. K., 343
 Farmer, C., 427
 Fillmore, S. A. E., 571
 Foote, K. D., 183
 Francis, D. A., 171
 Fraser, D., 485
 Friendship, R. M., 607
 Froetschel, M. A., 367
- Gabert, V. M., 443, 563
 Garber, M. J., 63
 Gauthier, S., 193
 Girard, C. L., 263, 427
 Gonyou, H. W., 289
 Goonewardene, L. A., 1, 459
- Hamilton, R. M. G., 377
 Hardin, R. T., 275, 283
 Harper, A. F., 157
 Harrold, R. L., 253
 Heaney, D. J., 385
 Heaney, D. P., 23
 Henderson, C. L., 477
- Hofacker, 531
 Hornick, J. L., 193
 Houseal, G. A., 555
 Hulan, H. W., 377
- Ibarra, D., 153
 Istasse, L., 193
 Ivan, M., 481, 587
 Iwaasa, A. D., 321
- Jacob, J. P., 121
 Jensen, J., 443
 Jeremiah, L. E., 451
 Jones, S. D. M., 49, 55, 329, 507, 517
 Jørgensen, H., 443
 Ju, H. Y., 267
- Karnuah, A. B., 497
 Kennedy, B. W., 41
 Kennelly, J. J., 209
 Khorasani, G. R., 209
 Kohle, N., 305
 Kornegay, E. T., 157
 Kozloski, G. V., 393
 Kress, D. D., 189
 Kuhnlein, U., 299
 Kumor, L., 135
- Laforest, J.-P., 427
 Lapiere, H., 259
 Larsen, T., 409
 Le Bas, A., 469
 LeBel, D., 621
 Lees, B. M., 215
 Leibo, S. P., 465
 Leng, L., 469
 Lepage, P., 329
 Lewis, B. A., 253
 Lindemann, M. D., 157
 Liptap, R. M., 221
 Lirette, A., 267
 Lobley, G. E., 259
- Macdonald, P. A., 145
 Martino, A., 465
 Mathison, G. W., 231
 Matte, J. J., 263, 427
 McAllister, T. A., 215, 231
 McBride, B. W., 343
 McCaughey, W. P., 149
 McKay, R. I., 275, 283
 McKinnon, J. J., 305, 547, 579, 625
 McNiven, M. A., 417
 McQueen, R. E., 89, 357

- McRae, K. B., 571
 McVetty, P. B., 7, 15
 Miller, H. L., 477
 Miller, J. J., 385
 Mitani, K., 497
 Miyamoto, A., 463
 Moriya, K., 497
 Mowat, D. N., 221
 Murch, S. J., 435
 Murphy, J. M., 435
 Murray, A. C., 401
 Mustafa, A. F., 547, 579, 625
- Nash, D. M., 377
 Neill, L., 481
 Nelson, A., 367
 Newcombe, M., 275, 283
 Nicholson, J. W. G., 89
 Nieves, C., 469
 Noguchi, Y., 203
- Ohtani, M., 463
 Ojowi, M. O., 547
 Okine, E. K., 231, 459
 Olkowski, A. A., 135
 Olson, B. E., 555
 Ouellet, D. R., 259
 Owen, B. D., 121
- Palin, M.-F., 621
 Palmer, W. M., 7, 15
 Parker, R. J., 7, 15
 Pelletier, G., 259, 621
 Peng, M., 621
 Peters, H. F., 23
 Phillips, P. A., 485
 Pollard, J. W., 465
 Pond, W. G., 253
 Poste, L. M., 313
 Poulson, H. D., 409
 Presa, P., 35
 Price, M. A., 49, 337, 517, 523
 Pumfrey, W. M., 63
- Quinton, V. M., 41
- Rakow, G., 423
 Read, B. J., 385
 Riegel, R. E., 393
 Roberts, S. A., 401
 Robertson, W. M., 49
 Robinson, F. E., 275, 283
 Robinson, N. A., 275
 Robinson, P. H., 105, 209, 357, 587
 Rocha, J. B. T., 393
 Rode, L. M., 629
 Rodriguez, M. N., 469
 Roeder, R. A., 63
 Rouvinen, K. I., 127
 Rubianes, E., 153, 473
- Sánchez, J. A., 35
 Sanford, K. A., 377
 Sano, H., 203
 Sasaki, Y., 497
 Sather, A. P., 55, 507
 Sato, K., 463
 Sauer, W. C., 563
 Schaefer, A. L., 329, 401
 Schelling, G. T., 63
 Schoenherr, W. D., 613
 Schulze, H., 271
 Senshu, T., 203
 Shafto, A. M., 7, 15
 Shrestha, J. N. B., 7, 15, 23
 Smith, C., 41
 Songsasen, N., 465
 Stanford, K., 215
 Stear, M. J., 145
 Stobbs, L., 451
 Stookey, J. M., 1
 Stothers, S. C., 163
 Subiyatno, A., 221
- Takagi, M., 463
 Taylor, I. L., 343
 Tebot, I., 469
- Terashima, Y., 203
 Tess, M. W., 189
 Thacker, P. A., 245
 Thibault, L., 401
 Thompson, B. K., 485
- Undi, M., 599
 Ungerfeld, R., 153
 Uttaro, B., 451
- Van Eenaeme, C., 193
 Van Lunen, T. A., 271
 Van Vleck, L. D., 23
 Vázquez, E., 35
 Veira, D. M., 113
 Viñoles, C., 153
- Walmsley, S., 465
 Wautier, T. A., 275, 283
 Weiler, U., 531
 Wentz, D., 385
 White, K. R., 491
 Widowski, T. M., 177
 Wijayagunawardane, M. P. B., 463
 Williams, C. C., 367
 Wilson, J. L., 275, 283
 Wilson, R. L., 435
 Wilton, J. W., 73, 81
 Winter, K. A., 571
 Wittenberg, K. M., 599
 Wood, D. J., 267
- Xu, Z. J., 215
- Yamazaki, T., 497
 Yambayamba, E. S. K., 517
 Yang, W. Z., 221, 629
 Yoshimura, K., 203
- Zadworny, D., 299
 Zhou, J. F., 299
 Zimmerman, D. R., 351

Subject Index

Canadian Journal of Animal Science, Volume 76, 1996

- Absorption
 - mineral and nitrogen balances in growing pigs, 409
- Acid
 - ulcers in pigs, 607
- Adjustment factor
 - scrotal circumference of composite bulls, 189
- Adrenocorticotrophic hormone
 - salivary cortisol in pigs, 329
- Aggression
 - newly mixed pigs fight in dim light, 141
- Alfalfa
 - shearing force of alfalfa stems, 321
- Alfalfa hay
 - nutrient concentration changes in stored alfalfa forage, 599
- Amaranth
 - effects of moist heat on amaranth fed to growing rats, 253
- Amino acid
 - amino acid digestibility in canola meal, 563
 - linseed meal for dairy cattle, 209
 - nutritional value of high-lysine barley, 445
 - proline synthesis from arginine in piglets, 435
 - protein and amino acids in wheat and barley grain, 163
 - undegraded protein, milk yield and mammary amino acid uptake, 367
- Animal model
 - lamb performance in Outaouais Arcott and Suffolk sheep, 15
- Animal welfare
 - sow preference for flooring type, 485
- Arginine
 - proline synthesis from arginine in piglets, 435
- Artificial insemination
 - oxytocin, ovulation and embryo survival in swine, 541
- Ascites
 - ascites in broiler chickens, 135
- Average daily gain
 - production traits and welfare of horned and polled bulls, 1
- Bacon
 - bacon and ham chemical composition, 451
- Barley
 - nutritional value of high-lysine barley, 445
 - protein and amino acids in wheat and barley grain, 163
 - ruminal degradability of hulless barley, 629
- Beef bull
 - ultrasound and lean yield of young beef bulls, 305
- Beef cattle
 - chemical composition of plants from saline areas, 385
 - effect of pelleting crab meal supplements, 95
 - effects of management on reproduction in beef cows, 387
 - feed efficiency for dry beef cows, 73
 - feed efficiency for lactating beef cows, 81
 - pasture finished beef, 149
 - scrotal circumference of composite bulls, 189
- Beef heifer
 - catch-up growth and reproduction in heifers, 523
 - puberty in beef heifers, 477
- Behaviour
 - exposure of weaner pigs to microwave radiation, 183
 - fluorescent lighting and poultry welfare, 177
 - genetic and housing effects in stalled pigs, 289
 - weight groups for weanling pigs, 171
- Bicarbonate
 - protein metabolism in growing cattle, 259
- Bile
 - ulcers in pigs, 607
- Birthweight
 - effects of management on reproduction in beef cows, 337
- Blood volume
 - serum and blood volume changes in sows, 263
- Bluebunch wheatgrass
 - nutritive value of bunchgrass components, 555
- Boar, wild
 - light and metabolically active hormone in pigs, 531
- Body composition
 - genotype and protein level in mice, 613
- Bovine lymphocyte antigen
 - association of BoLA alleles, 145
- Brassica*
 - trypsin inhibitors and phytic acid in *Brassica* and *Sinapis*, 423
- Brassica juncea*
 - trypsin inhibitors and phytic acid in *Brassica* and *Sinapis*, 423
- Brassica napus*
 - trypsin inhibitors and phytic acid in *Brassica* and *Sinapis*, 423
- Brassica rapa*
 - trypsin inhibitors and phytic acid in *Brassica* and *Sinapis*, 423
- Breed effect
 - carcass and meat quality from commercial pigs, 507
- Broiler
 - ascites in broiler chickens, 135
 - sensory evaluation of broiler chicken meat, 313
 - stevia as a feed sweetener for broilers, 267
- Broiler breeder
 - age at photostimulation in female broiler breeders, 275
- Bull
 - hindlimb metabolites exchange in steers, 193
- Calf
 - portal flux of metabolites in calves, 393
- Canadian pig
 - genetic change in performance-tested pigs, 41
- Canola meal
 - amino acid digestibility in canola meal, 563
 - high and low fibre canola meal, 579
 - linseed meal for dairy cattle, 209
 - sweet white lupins for lambs, 215
- Carcass
 - lamb grading, 49
 - vitamin E supplementation in cattle, 63
- Carcass composition
 - age at photostimulation in egg-type pullets, 283

- age at photostimulation in female broiler breeders, 275
- estimation of carcass composition by image analysis, 497
- ultrasound image analysis, 55
- Carcass cross section
 - estimation of carcass composition by image analysis, 497
- Carcass quality
 - pasture finished beef, 149
- Carcass trait
 - ultrasound and lean yield of young beef bulls, 305
- β -carotene
 - tolerance of growing pigs for vitamin A and β -carotene, 121
- Catch-up growth
 - catch-up growth and reproduction in heifers, 523
- Cattle
 - comparison of progesterone and oxytocin levels, 463
 - in situ degradabilities of selected and not selected forages, 459
 - liveweight gain by steers fed grass silage, 113
 - nutritive value of bunchgrass components, 555
 - protein metabolism in growing cattle, 259
- Cell wall chemical constituent
 - shearing force of alfalfa stems, 321
- Chemical composition
 - bacon and ham chemical composition, 451
 - high and low fibre canola meal, 579
- Chicken
 - age at photostimulation in egg-type pullets, 283
 - age at photostimulation in female broiler breeders, 275
 - ascites in broiler chickens, 135
- Chromium
 - dairy cow performance response to chromium supplementation, 221
- Colour
 - PSE in young turkey, 455
- Composite
 - scrotal circumference of composite bulls, 189
- Composition
 - lamb grading, 49
- Computer image analysis
 - estimation of carcass composition by image analysis, 497
- Condemnation
 - ascites in broiler chickens, 135
- Condition score
 - effects of management on reproduction in beef cows, 337
- Corn
 - xylanase supplementation of diets, 271
- Corpus luteum
 - comparison of progesterone and oxytocin levels, 463
- Cortisol
 - dairy cow performance response to chromium supplementation, 221
 - salivary cortisol in pigs, 329
- Crab meal
 - composition, digestibility and degradability of crab meal, 89
 - effect of pelleting crab meal supplements, 95
- Crested wheatgrass
 - thin stillage for grazing cattle, 547
- Cryopreservation
 - lambs from cryopreserved embryos, 465
- Dairy cattle
 - dairy cow performance response to chromium supplementation, 221
 - feeding strategies for dairy cows, 105
 - fibre fermentability, 357
 - undegraded protein, milk yield and mammary amino acid uptake, 367
- Degradation
 - in situ degradabilities of selected and not selected forages, 459
- Development
 - insulin response, action and sensitivity during growth, 203
- Diaminopimelic acid
 - microbial marker evaluation, 587
- Diet
 - methane production in ruminants, 231
- Dietary protein
 - effect of protein on stress in pigs, 401
 - genotype and protein level in mice, 613
- Digestibility
 - composition, digestibility and degradability of crab meal, 89
 - effect of pelleting crab meal supplements, 95
 - nutritional value of high-lysine barley, 445
- Digestion
 - fibre fermentability, 357
- DNA sequence
 - polymerase chain reaction analysis of β -lactoglobulin, 299
- Docosaehexaenoic acid
 - eggs from hens fed menhaden meal, 377
- Dominant follicle
 - progesterone effect on dominant follicle growth, 473
- Dopamine- β -hydroxylase
 - effect of protein on stress in pigs, 401
- Dry matter content
 - nutrient concentration changes in stored alfalfa forage, 599
- Duodenum
 - linseed meal for dairy cattle, 209
- Egg production
 - age at photostimulation in egg-type pullets, 283
 - age at photostimulation in female broiler breeders, 275
- Egg-type hen
 - age at photostimulation in egg-type pullets, 283
- Eicosapentaenoic acid
 - eggs from hens fed menhaden meal, 377
- Embryo
 - folic acid and embryo development, 427
 - lambs from cryopreserved embryos, 465
- Embryo survival
 - oxytocin, ovulation and embryo survival in swine, 541
- Energy
 - liveweight gain by steers fed grass silage, 113
- Enzyme
 - impact of pH on dietary enzyme activity, 245
- Epidemiology
 - ascites in broiler chickens, 135
- Epidermal growth factor
 - messenger RNA in piglet tissues, 621
- Epidermal growth factor receptor
 - messenger RNA in piglet tissues, 621
- Estimation equation
 - estimation of carcass composition by image analysis, 497
- Ewe
 - ewe performance in Outaouais Arcott and Suffolk sheep, 7
 - progesterone effect on dominant follicle growth, 473

- uterine involution in postpartum ewes, 153
- F₁ steer
 - estimation of carcass composition by image analysis, 497
- Farrowing
 - increased piglet survival through farrowing management, 491
- Farrowing crate
 - sow preference for flooring type, 485
- Fat
 - lamb grading, 49
- Fat, intramuscular
 - ultrasound image analysis, 55
- Fat deposition
 - genotype and protein level in mice, 613
- Feed additive
 - stevia as a feed sweetener for broilers, 267
- Feed efficiency
 - feed efficiency for dry beef cows, 73
 - feed efficiency for lactating beef cows, 81
- Feed enzyme
 - xylanase supplementation of diets, 271
- Feed restriction
 - catch-up growth and reproduction in heifers, 523
 - effects of management on reproduction in beef cows, 337
 - glycogen metabolites and meat quality in beef heifers, 517
- Fenugreek
 - fenugreek straw, 625
- Fertility
 - catch-up growth and reproduction in heifers, 523
- Fibre
 - fibre fermentability, 357
 - high and low fibre canola meal, 579
- Fight
 - newly mixed pigs fight in dim light, 141
- Filtration
 - protozoal isolation, 481
- Fish silage
 - silver hake and herring in mink diets, 127
- Flicker
 - fluorescent lighting and poultry welfare, 177
- Flooring
 - sow preference for flooring type, 485
- Fluorescent
 - fluorescent lighting and poultry welfare, 177
- Foetal pig
 - folic acid and foetal pig development, 157
- Folic acid
 - folic acid and embryo development, 427
 - folic acid and foetal pig development, 157
- Follicle
 - uterine involution in postpartum ewes, 153
- Food intake
 - light and metabolically active hormones in pigs, 531
- Forage
 - in situ degradabilities of selected and not selected forages, 459
 - liveweight gain by steers fed grass silage, 113
- Forage finishing
 - pasture finished beef, 149
- Forage quality
 - nutritive value of bunchgrass components, 555
- Free amino acid
 - plasma urea and amino acids of swine, 351
- Gain
 - inoculants for grass and wheat silages, 571
 - pasture finished beef, 149
- Genetic effect
 - ewe performance in Outaouais Arcott and Suffolk sheep, 7
 - lamb performance in Outaouais Arcott and Suffolk sheep, 15
- Genetic parameter
 - feed efficiency for dry beef cows, 73
 - feed efficiency for lactating beef cows, 81
- Genetic trend
 - genetic change in performance-tested pigs, 41
 - genetic trends in sheep, 23
- Genotype
 - genetic and housing effects in stalled pigs, 289
- Gestation stall
 - genetic and housing effects in stalled pigs, 289
- Gilt
 - folic acid and foetal pig development, 157
- genetic and housing effects in stalled pigs, 289
- β -glucanase
 - impact of pH on dietary enzyme activity, 245
- Glucidic potential
 - glycogen metabolites and meat quality in beef heifers, 517
- Glucose clamp technique
 - insulin response, action and sensitivity during growth, 203
- Glycemia
 - effect of protein on stress in pigs, 401
- Gonadotropin-releasing hormone
 - puberty in beef heifers, 477
- Grade
 - lamb grading, 49
- Grain
 - protein and amino acids in wheat and barley grain, 163
- Grain processing
 - ruminal degradability of hullless barley grain, 629
- Grass silage
 - inoculants for grass and wheat silages, 571
- Grazing
 - in situ degradabilities of selected and not selected forages, 459
- Growth
 - genotype and protein level in mice, 613
 - vitamin E supplementation in cattle, 63
 - xylanase supplementation of diets, 271
- Growth cycle
 - shearing force of alfalfa stems, 321
- Growth performance
 - stevia as a feed sweetener for broilers, 267
- Growth rate
 - hindlimb metabolites exchange in steers, 193
- Growth trial
 - high protein soybean for pigs, 417
- Haematocrit
 - increased piglet survival through farrowing management, 491
- Halothane gene
 - carcass and meat quality from commercial pigs, 507
- Ham
 - bacon and ham chemical composition, 451
- Hatchability
 - age at photostimulation in female broiler breeders, 275

- Hatchery
Atlantic salmon morphotypes, 35
- Hay
fenugreek straw, 625
- Head hide
weight groups for weanling pigs, 171
- Heat, supplementary
exposure of weaner pigs to microwave radiation, 183
- Herring
silver hake and herring in mink diets, 127
- Heterosis
ewe performance in Outaouais Arcott and Suffolk sheep, 7
lamb performance in Outaouais Arcott and Suffolk sheep, 15
- High fibre
high and low fibre canola meal, 579
- High protein soybean
high protein soybean for pigs, 417
- Hindlimb catheterism
hindlimb metabolites exchange in steers, 193
- Holstein
association of BoLA alleles, 145
polymerase chain reaction analysis of β -lactoglobulin, 299
- Hulless barley
ruminal degradability of hulless barley grain, 629
- Idaho fescue
nutritive value of bunchgrass components, 555
- Ileal digestibility
amino acid digestibility in canola meal, 563
- Immunity
tolerance of growing pigs for vitamin A and β -carotene, 121
vitamin E supplementation in cattle, 63
- In situ digestion
ruminal degradability of hulless barley grain, 629
- In vitro maturation and fertilization
lambs from cryopreserved embryos, 465
- Inoculant
inoculants for grass and wheat silages, 571
- Insulin response
insulin response, action and sensitivity during growth, 203
- Insulin sensitivity
insulin response, action and sensitivity during growth, 203
- Insulin-like growth factor-I
bST and intestinal nutrient absorption, 343
light and metabolically active hormones in pigs, 531
- Intake
effect of pelleting crab meal supplements, 95
- Interaction
mineral and nitrogen balances in growing pigs, 409
- Intestine
bST and intestinal nutrient absorption, 343
- Intramuscular fat
ultrasound image analysis, 55
- Lactation
feed efficiency for lactating beef cows, 81
renal function in pregnant and lactating ewes, 469
- β -lactoglobulin
polymerase chain reaction analysis of β -lactoglobulin, 299
- Lamb
lamb grading, 49
lamb performance in Outaouais Arcott and Suffolk sheep, 15
sweet white lupins for lambs, 215
- Landrace
carcass and meat quality from commercial pigs, 507
- Large White
carcass and meat quality from commercial pigs, 507
- Laying hen
eggs from hens fed menhaden meal, 377
- Lesion
weight groups for weanling pigs, 171
- Leucine
protein metabolism in growing cattle, 259
- Lifetime yield
association of BoLA alleles, 145
- Light
newly mixed pigs fight in dim-light, 141
- Lighting
fluorescent lighting and poultry welfare, 177
- Linseed meal
linseed meal for dairy cattle, 209
- Litter weight
ewe performance in Outaouais Arcott and Suffolk sheep, 7
- Liver
glycogen metabolites and meat quality in beef heifers, 517
- Longissimus muscle
glycogen metabolites and meat quality in beef heifers, 517
- Low fibre
high and low fibre canola meal, 579
- Lupin
sweet white lupins for lambs, 215
- Luteinizing hormone
dairy cow performance response to chromium supplementation, 221
- Major element
chemical composition of plants from saline areas, 385
- Management
feeding strategies for dairy cows, 105
- Manitoba
protein and amino acids in wheat and barley grain, 163
- Marbling
ultrasound image analysis, 55
- Meat
PSE in young turkey, 455
- Meat quality
glycogen metabolites and meat quality in beef heifers, 517
ultrasound image analysis, 55
- Melatonin
ulcers in pigs, 607
- Menhaden meal
eggs from hens fed menhaden meal, 377
- Metabolite
hindlimb metabolites exchange in steers, 193
portal flux of metabolites in calves, 393
- Methane
methane production in ruminants, 231
- Methanogen
methane production in ruminants, 231
- Microbiology
methane production in ruminants, 231
- Microwave
exposure of weaner pigs to microwave radiation, 183
- Milk production
dairy cow performance response to chromium supplementation, 221

- Milk yield
 - undegraded protein, milk yield and mammary amino acid uptake, 367
- Mineral
 - mineral and nitrogen balances in growing pigs, 409
- Mineral requirement
 - chemical composition of plants from saline areas, 385
- Mink
 - silver hake and herring in mink diets, 127
- Mixing
 - weight groups for weanling pigs, 171
- Morphotypes
 - Atlantic salmon morphotypes, 35
- Mortality
 - increased piglet survival through farrowing management, 491
- Mouse
 - genotype and protein level in mice, 613
- Multi-trait animal model and growth traits
 - genetic trends in sheep, 23
- Neutral detergent fibre
 - fibre fermentability, 357
- Norgestomet
 - puberty in beef heifers, 477
- Nutrient
 - nutrient concentration changes in stored alfalfa forage, 599
- Nutrient absorption
 - bST and intestinal nutrient absorption, 343
- Nutrition
 - silver hake and herring in mink diets, 127
- Nutritive value
 - effects of moist heat on amaranth fed to growing rats, 253
- Oat (hulless, naked)
 - sensory evaluation of broiler chicken meat, 313
- Omega-3 fatty acids
 - eggs from hens fed menhaden meal, 377
- Oocyte
 - lambs from cryopreserved embryos, 465
- Ovulation
 - oxytocin, ovulation and embryo survival in swine, 541
- Oxytocin
 - comparison of progesterone and oxytocin levels, 463
- oxytocin, ovulation and embryo survival in swine, 541
- Packed red cell volume
 - serum and blood volume changes in sows, 263
- Palatability
 - composition, digestibility and degradability of crab meal, 89
- Pale, soft, exudative
 - PSE in young turkey, 455
- Pasture
 - pasture finished beef, 149
- Pelleting
 - effect of pelleting crab meal supplements, 95
- Performance
 - exposure of weaner pigs to microwave radiation, 183
- Performance testing
 - genetic change in performance-tested pigs, 41
 - ultrasound and lean yield of young beef bulls, 305
- pH
 - impact of pH on dietary enzyme activity, 245
- Phosphatidylcholine
 - microbial marker evaluation, 587
- Photoperiod
 - light and metabolically active hormones in pigs, 531
- Phytic acid
 - trypsin inhibitors and phytic acid in *Brassica* and *Sinapis*, 423
- Pig
 - amino acid digestibility in canola meal, 563
 - effect of protein on stress in pigs, 401
 - exposure of weaner pigs to microwave radiation, 183
 - folic acid and foetal pig development, 157
 - genetic change in performance tested pigs, 141
 - high protein soybean diet for pigs, 417
 - impact of pH on dietary enzyme activity, 245
 - light and metabolically active hormones in pigs, 531
 - mineral and nitrogen balances in growing pigs, 409
 - newly mixed pigs fight in dim light, 141
 - nutritional value of high-lysine barley, 445
- plasma urea and amino acids of swine, 351
- salivary cortisol in pigs, 329
- tolerance of growing pigs for vitamin A and β -carotene, 121
- ultrasound image analysis, 55
- weight groups for weanling pigs, 171
- xylanase supplementation of diets, 271
- Pig tissue
 - messenger RNA in piglet tissues, 621
- Pig, weaner
 - exposure of weaner pigs to microwave radiation, 183
 - weight groups for weanling pigs, 171
- Piglet
 - increased piglet survival through farrowing management, 491
 - proline synthesis from arginine in piglets, 435
- Plant
 - chemical composition of plants from saline areas, 385
- Plasma urea nitrogen
 - plasma urea and amino acids of swine, 351
- Polled horned bull
 - production traits and welfare of horned and polled bulls, 1
- Polymorphisms
 - PCR analysis of β -lactoglobulin, 299
- Pork
 - bacon and ham chemical composition, 451
- Portal flux
 - portal flux of metabolites in calves, 393
- Potassium
 - plasma urea and amino acids of swine, 351
- Poultry
 - PSE in young turkey, 455
 - fluorescent lighting and poultry welfare, 177
- Preference testing
 - sow preference for flooring type, 485
- Pregnancy
 - feed efficiency for dry beef cows, 73
 - renal function in pregnant and lactating ewes, 469
- Probe
 - lamb grading, 49

- Processing
 effects of moist heat on amaranth fed to growing rats, 253
- Profitability
 association of BoLA alleles, 145
- Progesterone
 comparison of progesterone and oxytocin levels, 463
 progesterone effect on dominant follicle growth, 473
- Prolifacacy
 ewe performance in Outaouais Arcott and Suffolk sheep, 74
- Proline
 proline synthesis from arginine in piglets, 435
- Protected soybean
 hindlimb metabolites exchange in steers, 193
- Protein
 composition, digestibility and degradability of crab meal, 89
 plasma urea and amino acids of swine, 351
 protein and amino acids in wheat and barley grain, 163
 sweet white lupins for lambs, 215
- Protein metabolism
 protein metabolism in growing cattle, 259
- Protein supplement
 portal flux of metabolites in calves, 393
- Protozoa
 microbial marker evaluation, 587
- Protozoal isolation
 protozoal isolation, 481
- Puberty
 puberty in beef heifers, 477
- Rat
 effects of moist heat on amaranth fed to growing finishing rats, 253
 nutritional value of high-lysine barley, 445
- Real-time ultrasound
 ultrasound and lean yield of young beef bulls, 305
- Realimentation
 glycogen metabolites and meat quality in beef heifers, 517
- Rebreeding
 effects of management on reproduction in beef cows, 337
- Renal function
 renal function in pregnant and lactating ewes, 469
- Reproduction
 catch-up growth and reproduction in heifers, 523
 dairy cow performance response to chromium supplementation, 221
 effects of management on reproduction in beef cows, 337
- Reproductive performance
 puberty in beef heifers, 477
- Retention
 mineral and nitrogen balances in growing pigs, 409
- Ribonucleic acid
 microbial marker evaluation, 587
- Rumen bacteria
 microbial marker evaluation, 587
- Rumen degradability
 composition, digestibility and degradability of crab meal, 89
 high and low fibre canola meal, 579
 ruminal degradability of hullless barley grain, 629
- Ruminal fluid
 protozoal isolation, 481
- Ruminant
 methane production in ruminants, 231
- Saline area
 chemical composition of plants from saline areas, 385
- Saliva
 salivary cortisol in pigs, 329
- Salmo salar*
 Atlantic salmon morphotypes, 35
- Scrotal circumference
 scrotal circumference of composite bulls, 189
- Sedimentation
 protozoal isolation, 481
- Selection
 in situ degradabilities of selected and not selected forages, 459
- Sensory analysis
 sensory evaluation of broiler chicken meat, 313
- Sequence
 feeding strategies for dairy cows, 105
- Serum volume
 serum and blood volume changes in sows, 263
- Sex
 ultrasound image analysis, 55
- Sexual maturity
 age at photostimulation in egg-type pullets, 283
- age at photostimulation in female broiler breeders, 275
- Shearing force
 shearing force of alfalfa stems, 321
- Sheep
 bST and intestinal nutrient absorption, 343
 insulin response, action and sensitivity during growth, 203
 lambs from cryopreserved embryos, 465
 renal function in pregnant and lactating ewes, 469
- Sheep breed
 genetic trends in sheep, 23
- Silage
 liveweight gain by steers fed grass silage, 113
- Silver hake
 silver hake and herring in mink diets, 127
- Smolting
 Atlantic salmon morphotypes, 35
- Somatotropin
 bST and intestinal nutrient absorption, 343
- Sow
 folic acid and embryo development, 427
 folic acid and foetal pig development, 157
 serum and blood volume changes in sows, 263
 sow preference for flooring type, 485
- Soybean meal
 high protein soybean for pigs, 417
 sweet white lupins for lambs, 215
- Stable isotope
 protein metabolism in growing cattle, 259
- Stage of maturity
 shearing force of alfalfa stems, 321
- Starter pig
 high protein soybean for pigs, 417
- Steer
 inoculants for grass and wheat silages, 571
- Stevia
 stevia as a feed sweetener for broilers, 267
- Storage
 eggs from hens fed menhaden meal, 377
 nutrient concentration changes in stored alfalfa forage, 599
- Strategy
 feeding strategies for dairy cows, 105

- Straw
 fenugreek straw, 625
- Stress
 effect of protein on stress in pigs, 401
 genetic and housing effects in stalled pigs, 289
 salivary cortisol in pigs, 329
- Supplementary heat
 exposure of weaner pigs to microwave radiation, 183
- Swine
 ulcers in pigs, 607
 proline synthesis from arginine in piglets, 435
- Swine production
 carcass and meat quality from commercial pigs, 507
- Temper-rolling
 ruminal degradability of hullless barley grain, 629
- Temperature
 nutrient concentration changes in stored alfalfa forage, 599
- Testosterone
 light and metabolically active hormones in pigs, 531
- Test station
 production traits and welfare of horned and polled bulls, 1
- Thin stillage
 thin stillage for grazing cattle, 547
- Thiobarbituric acid
 sensory evaluation of broiler chicken meat, 313
- Toxicity
 tolerance of growing pigs for vitamin A and β -carotene, 121
- Trace element
 chemical composition of plants from saline areas, 385
 mineral and nitrogen balances in growing pigs, 409
- Transport
 salivary cortisol in pigs, 329
- Trichoderma longibrachiatum*
 xylanase
 xylanase supplementation of diets, 271
- Trypsin inhibitor
 trypsin inhibitors and phytic acid in *Brassica* and *Sinapis*, 423
- Turkey
 PSE in young turkey, 455
- Ulcer diet
 ulcers in pigs, 607
- Ultrasonography
 progesterone effect on dominant follicle growth, 473
- Undegraded protein sources
 undegraded protein, milk yield and mammary amino acid uptake, 367
- Urea
 renal function in pregnant and lactating ewes, 469
- Urea cycle
 proline synthesis from arginine in piglets, 435
- Uterine horn
 comparison of progesterone and oxytocin levels, 463
- Uterine involution
 uterine involution in postpartum ewes, 153
- Uterus
 folic acid and embryo development, 427
- Vitamin A
 tolerance of growing pigs for vitamin A and β -carotene, 121
- Vitamin E
 tolerance of growing pigs for vitamin A and β -carotene, 121
 vitamin E supplementation in cattle, 63
- Wave 1
 progesterone effect on dominant follicle growth, 473
- Weaner pig
 exposure of weaner pigs to microwave radiation, 183
- Weaning
 messenger RNA in piglets tissues, 621
 newly mixed pigs fight in dim-light, 141
 uterine involution in postpartum ewes, 153
- Weanling
 weight groups for weanling pigs, 171
- Weight
 lamb performance in Outaouais Arcott and Suffolk sheep, 15
- Weight gain
 increased piglet survival through farrowing management, 491
- Wheat
 protein and amino acids in wheat and barley grain, 163
 thin stillage for grazing cattle, 547
 xylanase supplementation of diets, 271
- Wheatgrass, bluebunch
 nutritive value of bunchgrass components, 555
- Wheatgrass, crested
 thin stillage for grazing cattle, 547
- Wheat silage
 inoculants for grass and wheat silages, 571
- Winter grazing
 nutritive value of bunchgrass components, 555
- Wound
 newly mixed pigs fight in dim-light, 141
- Zinc
 mineral and nitrogen balances in growing pigs, 409